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June 27, 2003, 17:57:14; Search time 37 Seconds (without alignments) 54.021 Million cell updates/sec
GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.
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                                                                                                                                                                                                                                                                                                                                908470 seqs, 133250620 residues
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Maximum Match 100%
Listing first 45 summaries
                                                                        OM protein - protein search, using sw model
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Gapop 10.0 , Gapext 0.5
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84
1 LKAMDPTPPLWIKTE 15
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Maximum DB seq length: 200000000
                                                                                                                                                                                           Title:
Perfect score:
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/SIDS2/gcgdata/geneseg/genesegp-embl/AA1999 .DAT:*/SIDS2/gcgdata/geneseg/genesegp-embl/AA2000 .DAT:* /SIDS2/gcgdata/geneseq/geneseqp-embl/AA2001.DAT:*/SIDS2/gcgdata/geneseq/geneseqp-embl/AA2002.DAT:* /SIDS2/gcgdata/geneseq/geneseqp-emb1/AA1990.DAT:* /gcgdata/geneseq/geneseqp-embl/AA1995.DAT:* /gcgdata/geneseq/geneseqp-emb1/AA1994.DAT:* /gcgdata/geneseq/geneseqp-embl/AA1998.DAT:* /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1982.DAT: /SIDS2/gcgdata/geneseq/geneseqp-emb1/AA1983.DAT:/SIDS2/gcgdata/geneseq/geneseqp-emb1/AA1984.DAT:/SIDS2/gcgdata/geneseq/geneseqp-emb1/AA1985.DAT:/SIDS2/gcgdata/geneseq/geneseqp-emb1/AA1986.DAT:/SIDS2/gcgdata/geneseq/geneseqp-emb1/AA1986.DAT:/SIDS2/gcgdata/geneseq/geneseqp-emb1/AA1988.DAT:/SIDS2/gcgdata/geneseq/geneseqp-emb1/AA1988.DAT:/SIDS2/gcgdata/geneseq/geneseqp-emb1/AA1988.DAT: /gcgdata/geneseq/genesegp-embl/AA1989.DAT /gcgdata/geneseq/geneseqp-emb1/AA1991.DAT /SIDS2/gcgdata/geneseq/geneseqp-emb1/AA1997 /SIDS2/gcgdata/geneseq/geneseqp-emb1/AA1993 /gcgdata/geneseg/genesegp-embl/AA1996 /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1980. /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1981. /SIDS2/gcgdata/geneseq/geneseqp-emb1/AA1992 A_Geneseq_101002:* /SIDS2/ /SIDS2/ SIDS2 Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Description	N-terminal peptide	N-terminus of opes	N-terminus of opos	Novel human diagno	Neisseria meningit	Neisseria menindit	Drosophila melanog	TATA-binding prote	Drosophila TATA-bi	TATA-binding prote
SUMMARIES ID	AAW11575	AAW53841	AAW53843	ABG18144	AAY74718	AAY74721	ABB59797	AAR56496	AAW06086	AAW25029
89	18	19	19	22	21	21	22	15	17	18
% Query Match Length DB	15	15	10	303	267	267	729	1189	1213	1213
% Query Match	100.0	100.0	64.3	56.0	54.8	54.8	54.8	54.8	54.8	54.8
Score	84	84	54	47	46	46	46	46	46	46
Result No.	1	7	m	4	S	o	7	80	6	10

Drosophila melanog	Neisseria meningit	Peptide #9611 enco	Human brain expres	Human bone marrow		mays	mays	Zea mays protein f	n pol			Novel human secret	human	protei	dopsis			Human polypeptide	Propionibacterium	Human protein sequ	Arabidopsis thalia	Arabidopsis thalia		-	8		8	Arabidopsis thalla	Arabidopsis thalia	03	00	Arabidopsis thalia	Human polypeptide,	Human seizure rela
ABB62618	AAY74720	ABB42105	AAM62985	AAM75798	AAG54516	AAG54515	AAG54605	AAG54604	AA010737	AAB93318	ABG22890	AAU32796	ABG23871	AAM79784	AAG27883	AAG27882	AAG27881	AA002179	AAU53021	AAB94009	AAG12869	AAG43050	AAG50737	AAG50729	AAG12868	AAG43049	AAG50736	AAG12867	AAG43048	AAG50735	AAG50728	AAG50727	AAM93461	AAB20447
22	21	22	22	22	21	21	21	21	22	22	52	22	22	22	21	21	21	22	22	22	21	21	21	21	21	21	21	21	21	21	21	21	22	77
1219	267	37	37	37	16	79		95	120	125	156	1457	316	393	496	522	687	94	108	345	410	410	410	419	449	449	449	453	453	453	458	462	578	580
54.8	53.6	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	51.2	51.2	51.2	51.2	51.2	50,0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0					50.		50.0
-4	4.5	44	44	44	44	7.7	44	44	44	44	44	44	43	43	43	43	43	42	42	45	42		42	42	42	42	42	42	4.		42	42	7.	7.4
11	12	13	14	. 15	16	17	18	19	20	21	22	23	24	25	56	27	28	53	30	31	32	33	34	32	36	37	86	33	40	41	42	43	44	45

			N-terminal peptide from lethal toxin neutralising	
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staı		16	1 pc	
375	575;	₹19	nina	
1 5 W119	AAW11575;	20-MAR 1997	tern	
7LT 1 11575 AAW	Æ	20	ż	

ALIGNMENTS

Lethal toxin meutralising factor; LTNF; opossum; bee toxin; scorpion toxin; plant toxin; bacterial toxin; venom; sting; snake bite.

93US-0058387. 94US-0310340. 93US-0058387. Didelphis virginiana. (LIPPA) LIPPS B V. (LIPPA) LIPPS F W. 10-MAY-1993; 22-SEP-1994; 10-MAY-1993; US5576297-A. 19-NOV-1996.

Treatment of victims of bee or scorpion stings or plant or bacterial WPI; 1997-011.287/01.

Lipps BV, Lipps FW;

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Sequence
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                                                                                                                Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                 LINF: lethal toxin neutralising factor; opossum; envenomation; therapy; anti-haemorrhagic protein; Elapidae; Viperidae; sea snake; snake bite; sepsis; allergy; bee sting; scorpion sting; plant toxin; bacterial toxin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            This sequence represents the peptide of the invention. It is a Lethal Toxin Neutralising Factor (LINF) molety from a 68 kDa anti-haemorrhagic protein derived from an opossum. The peptide can be used in a method for treating a victim of envenomation from a poisonous snake, preferably a poisonous snake from the family of Elapidae, Viperidae or sea snake. It is useful for the treatment of snake bites, sepsis, allergies caused
                                                                                                                                                                                                                                          Gaps
                                                     The present sequence is from the N-terminus of a 68 kD protein purified from the serum of the opossum Didelphis virginiana. The full-length protein is a lethal toxin neutralising factor (LTNF). The use of purified LTNF or of the chemically synthesised 15mer N-terminal peptide for treating victims of bee stings, scorpton stings and bacterial or plant toxins is claimed. The patent disclosure does not provide any evidence for neutralising activity against these various toxins. There is evidence of significant neutralising activity of the opossum LTNF and the 15mer peptide against venom from snakes of the families Crotalidae, Elaphidae,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Lethal Toxin Neutralising Factor peptide from opossum - can neutralise venom(s) from all major families of poisonous snakes
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by admin. of lethal toxin-neutralising factor or its
                                                                                                                                                                                                              100.0%; Score 84; DB 18; Length 15; 100.0%; Pred. No. 8.7e-07; ive 0; Mismatches 0; Indels
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                                                                                                                                                                                                                                                                                                                                         AAW53841 standard; peptide; 15 AA.
                                 Claim 7; Column 9; 9pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    histamine reaction treatment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             93US-0657163.
93US-0058387.
94US-0310340.
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                                                                                                                                                                      Hydrolidae and Viperidae
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(LIPP/) LIPPS
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10-MAY-1993;
22-SEP-1994;
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                                                                                                                                                                                             Sequence
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This sequence represents the peptide of the invention. It is a Lethal Toxin Neutralising Factor (LTNF) molety from a 68 kba anti-haemorrhagic protein derived from an opossum. The peptide can be used in a method for treating a victim of envenomation from a poisonous snake, preferably a poisonous snake from the family of Elapidae, Viperidae or sea snake. It is useful for the treatment of snake bites, sepsis, allergies caused by the environment and treatment of snake bites, sepsis, allergies caused by the environment and treatment of bee or scorpion stings or toxicities caused by plant or bacterial toxins. The peptide can also be used in histamine reaction treatment. The peptide can be used in envenomation treatment for a variety of snakes without prior identification of the snake. Being short it can be synthetically prepared rather than the current production in horses, where some people can show hypersensitivity
by the environment and treatment of bee or scorpion stings or toxicities caused by plant or bacterial toxins. The peptide can also be used in thistamine reaction treatment. The peptide can be used in envenomation treatment for a variety of snakes without prior identification of the snake. Being short it can be synthetically prepared rather than the current production in horses, where some people can show hypersensitivity
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Pred. No. 8.7e-07;
Mismatches 0;
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100.0%; Pre
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                                                                                                                                                                                                                   to horse proteins.
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22-SEP-1994;
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10 AA;

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The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, colymerase chain reaction (FCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags of orientifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantifiating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful in medical disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in dispnostics, forensics, gene mapping, identification of mutations cresponsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and diagnostic amino acid sequences. Abgolou-Ab
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                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; chromosome mapping; gene mapping; gene therapy; forensic; food supplement; medical imaging; diagnostic; genetic disorder.
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                          Length 10;
                                                                         0; Indels
                     Score 54; DB 19;
Pred. No. 0.033;
0; Mismatches 0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  Novel human diagnostic protein #18135.
                                                                                                                                                                                                                                                                                              ABG18144 standard; Protein; 303 AA.
64.3%; Scor
100.0%; Prev
0; F
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23-AUG-2000; 2000US-0649167.
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               Query Match 64.3
Best Local Similarity 100.
Matches 10; Conservative
                                                                                                                         1 LKAMDPTPPL 10
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Length 303;

56.0%; Score 47; DB 22;

Query Match

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                                                                                                                                                                                                                                                    Neisseria meningitidis; Neisseria gonorrheae; antigen; vaccine;
antigenic; diagnosis; immunogenic; infection; meningitis; septicaemia;
antibacterial; gene therapy.
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Scalato E, Scarselli
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                                                                                                                                                                                                                           Neisseria meningitidis ORF 241 protein sequence SEQ ID NO:910
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                Indels
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Ratti G,
ed. No. 15;
Mismatches
 Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Galeotti C, Grandı V,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 2; Page 553; 1453pp; English.
                                                                                                                                         AAY74718 standard; Protein; 267 AA.
 42.98;
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                                        2 KAMDPTPPLWIKTE 15
                                                          39 EASDPVPPYWVRLQ 52
                                                                                                                                                                                                21-MAR-2000 (first entry)
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Best Local Similarity 58.3
Matches 7; Conservative
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             6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               vaccines and diagnostics
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Tettelin H, Venter JC;
                                                                                                                                                                                                                                                                                                             Neisseria meningitidis
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N-PSDB; AAZ53480.
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Similarity
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09-OCT-1998
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02-SEP-1998
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Best Local
Matches
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(first entry)

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New isolated nucleic acid detection reagent for detecting 1000 or more genes from Drosophila and for elucidating cell signalling and cell-cell interactions -
                                                                                                                                                                                                                                                                                                                                                                                                                         Drosophila; developmental biology; cell signalling; insecticide;
                                                                                                                                                                                                                                                                                                                                                                   Drosophila melanogaster polypeptide SEQ ID NO 6183.
                                                                                                                                                                           ABB59797 standard; Protein; 729 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      23-MAR-2001; 2001WO-US09231
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11-JUL-2000; 2000US-0614150
Drosophila melanogaster
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        pharmaceutical
                                                                                                                                                                                                                                                                                                      26-MAR-2002
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                                                                                                                                                                                                                                          ABB59797;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               be used to screen for agonists or antagonists, which may themselves have use as antibacterial agents. The polynucleotides of the invention may also be used in gene therapy protocols.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Neisseria meningitidis; Neisseria gonorrheae; antigen; vaccine; antigenic; diagnosis; immunogenic; infection; meningitis; septicaemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Scarselli M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Masignani V, Mora M;
Scalato E, Scarselli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Novel Neisserial polypeptides predicted to be useful antigens for vaccines and diagnostics
                                                                                                                                                                                                                                                                                                                                                                                                                         Neisseria meningitidis ORF 241 protein sequence SEQ ID NO:916.
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Pred. No. 19;
2; Mismatches 3; Indels
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Ratti G,
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                                                                                                                                                                                                                                          AAY74721 standard; Protein; 267 AA.
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   Pizza M, Rappuoli R,
   Venter JC;
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58.3%;
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98US-0103749.
98US-0103794.
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98US-0098994
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99US-0121528
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Best Local Similarity 58.30,
Best Local 7; Conservative
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                                                                                  AKHPIPPIWLOT 20
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                            AMDPTPPLWIKT
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Petersen J,
Tettelin H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO9957280-A2
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02-SEP-1998;
02-SEP-1998;
09-OCT-1998;
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Myers EW;

Li PWD,

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                                             The invention relates to an isolated nucleic acid detection reagent capable of detecting 1000 or more genes from Drosophila. The invention useful in developmental biology and in elucidating cell signalling and cell-cell interactions in higher eukaryotes for the development of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                           insecticides, therapeutics and pharmaceutical drugs. The invention discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA sequences (ABL01840-ABL16175) and the encoded proteins
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Disclosure; SEQ ID NO 6183; 21pp + Sequence Listing; English.
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55;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                   Score 46;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAR56496 standard; Protein; 1189 AA.
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Best Local Similarity 57.1%;
Matches 8; Conservative ;
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                                                                                                                                                                                                                                  ABB57737-ABB72072).
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WPI; 1996-333245/33.
N-PSDB; AAT42219.
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30-JUN-1993;
 US5534410-A.
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                  09-JUL-1996
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                                                                                                         Comai L,
Tjian R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAW25029;
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                                                                                                                                                                                                                                                                                                                                           The TATA-binding protein associated factor hTAFISO (including specific antibodies and fusion products) are used in drug screening, diagnostics and therapeuties. They are used in the development of specific biochemical assays for screening compounds that agonise or antagonise selected transcription factors involved in regulating egene expression associated with human pathology.
                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Drosophila; TATA-binding protein; TBP associated factor; TFIID; RNA polymerase II; transcription; messenger RNA; nuclear fraction; holoenzyme; lambda-gtl1; expression library.
                                                                                                                                                                                                                                                                                        TATA-binding protein associated protein factors - and corresponding nucleotide sequence and deriv. antibodies, useful in screening, diagnostics and therapeutics
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                                                                                                                                                                                                                                                                                                                                                                                                                          Score 46; DB 15; Length 1189;
Pred. No. 92;
3; Mismatches 4; Indels (
        TATA-binding protein associated factor; dTAFI50; screening; dlagnostic; therapeutic; gene transcription regulation.
                                                                                                                                                                                                                                         Tanese N;
                                                                                                                                                                                                                                        Ruppert S,
                                                                                                                                                                                                                                                                                                                            Oisclosure; Page 156; 180pp; English.
                                                                                     note- "Arg, Pro or
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                                           Location/Qualifiers
923
                                                                    note- "Val or Leu"
                                                                                                                                                                                                                                       Weinzierl ROJ;
                                                                                                   /note- "STOP"
1176
                                                                                                                       /note- "STOP"
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53.3%;
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589 LSAMDDSPVLWIRLD 603
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93US-0087119.
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Best Local Similarity 53.3'
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                                                                                                                                                                                                                     (REGC ) UNIV CALIFORNIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Drosophila melanogaster
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Wang E, We
                                                                                                                                                                                                                                                                WPI; 1994-264019/32.
                                                                                                                                                                                                                                                                                                                                                                                                         1189 AA;
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                                                                             Misc-difference
                                                                                             Misc-difference
                                                           Misc-difference
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30-JUN-1993;
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Tjian R,
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This is the amino acid sequence of the Drosophila TATA-binding protein (TBP) associated factor (TAF) designated TAFIL60. The protein is a component of the TFILD fraction required for reconstituting RNA component of the TFILD fraction required for reconstituting RNA as an estimated mol. wt. of 60 kD by SDS-PAGE. The invention relates to purified proteins involved in transcription of the RNA polymerase which transcribes messenger. NNA polymerase II transcription proceeds in vitro upon addition of several nuclear fractions designated TFILA, BD. E. F. H., I and J to RNA polymerase II thologaryme. Fraction TFILD has been shown to contains a TMP and other TAFs. Purification of TFILD and separation of its components reveals 7 proteins ranging in size from 30-250 kD. Serum raised against the TFILD fraction allowed cloning of the corresp.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           Screen for code. that bind human TATA-binding protein associated factor - by testing ability to bind to polypeptide fragments of the factor, useful as (ant)agonists of transcription factors involved in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
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                                                                                                                                                                                                                                                                  Dynlacht BD, Hoey T,
Wang E, Weinzierl ROJ;
                                                           94US-0188582.
93US-0013412.
93US-0087119.
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93US-0013412,
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Matches 8; Conservative
                                                                                                                                                                                                (REGC ) UNIV CALIFORNIA.
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us-09-300-612-1.rag

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Sequence
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                                                                                                                                                                                                                                                                                  RESULT 12
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                                                                                                                                                                                           polypeptide, drariliso (mol. weight 150kp). The peptides derived from drariliso alpha, drariliso beta, drarilao, drarilso, and drarilso, are used to modulate transcription, including transcription initiation. Taks are nuclear proteins involved in RNA polymerase i, il and ili transcription. The peptides act by binding to a different TAF, an activator, or TBP (TATA-binding protein) or competitively inhibiting association of a TAF domain with another compound, typically a protein like TBP or another TAF, an activator,
                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                           Nucleic acids encoding human TATA-binding protein associated factor (TAF) peptide(s) - for production of recombinant peptide(s), used for modulating transcription of TAFs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Drosophila; developmental biology; cell signalling; insecticide;
                                                                                                                                                                                    AAW25029 represents TATA-binding protein associated factor (TAF)
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                                                                                                                                                                                                                                                                                                                       DB 18; Length 1213; 94;
                                                                                                                                                                                                                                                                                                                                           Indels
                                                                    Tanese N;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Drosophila melanogaster polypeptide SEQ ID NO 14646
                                                                                                                                                                                                                                                                                                                                           4;
                                                                   Ruppert S,
                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                Example 1; Column 131-138; 86pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Li PWD, Myers EW;
                                                                                                                                                                                                                                                                                                                       54.8%; Score 46; 53.3%; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                               ABB62618 standard; Protein; 1219 AA.
                                                                   Dynlact BD, Hoey T,
Wang E, Weinzierl ROJ;
94US-018B5B2.
93US-0013412.
93US-0087119.
96US-0646715.
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LSAMDDSPVLWIRLD 634
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11-JUL-2000; 2000US-0614150.
                                                                                                                                                                                                                                                                                                                                                             1 LKAMDPTPPLWIKTE 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                          Conservative
                                                (REGC ) UNIV CALIFORNIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Drosophila melanogaster.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Adams M,
                                                                                              WPI; 1997-319113/29.
N-PSDB; AAT79605.
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N-PSDB; ABL06721.
                                                                                                                                                                                                                                                                                                   1213 AA;
                                                                                                                                                                                                                                                                                                                                Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO200171042-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    pharmaceutical
28-JAN-1994;
28-JAN-1993;
30-JUN-1993;
                             09-MAY-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    26-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           27-SEP-2001
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                                                                                                                                                                                                                                                                                                    Seguence
                                                                  Comai L,
Tjian R,
                                                                                                                                                                                                                                                                                                                                                                              620
                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABB62618;
                                                                                                                                                                                                                                                                                                                                 Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 11
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                                                                                                                                     The invention relates to an isolated nucleic acid detection reagent capable of detecting 1000 or more genes from Drosophila. The invention useful in developmental biology and in elucidating cell signalling and cell-cell interactions in higher eukaryotes for the development of insecticides, therapeutics and pharmaceutical drugs. The invention discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA sequences (ABL16175) and the encoded proteins
New isolated nucleic acid detection reagent for detecting 1000 or more genes from Drosophila and for elucidating cell signalling and cell-cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Neisseria meningitidis; Neisseria gonorrheae; antigen; vaccine; antigenic; diagnosis; immunogenic; infection; meningitis; septicaemia; antibacterial; gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ï
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mora M;
Scarselli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Novel Neisserial polypeptides predicted to be useful antigens for vaccines and diagnostics
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                                                                                        Disclosure; SEQ ID NO 14646; 21pp + Sequence Listing; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Neisseria meningitidis ORF 241 protein sequence SEQ ID NO:914.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 1219;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Masignani V,
Scalato E, S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       22;
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Ratti G,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB
95;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  54.8%; Score 46; 53.3%; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAY74720 standard; Protein; 267 AA.
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   Pizza M, Rappuoli R,
   Venter JC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ||| :| ||| :
618 LSAMDDSPVLWIRLD 632
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98US-0094869.
98US-0098994.
98US-0099062.
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98US-0103794,
98US-0103796,
99US-0121528,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 53.33
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (CHIR ) CHIRON CORP. (GENO-) INST GENOMIC RES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Neisseria meningitidis
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                                                                                                                                                                                                                                                                                                                                                                                                                                     1219 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       N-PSDB; AAZ53482.
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Petersen J,
Tettelin H,
                                               interactions
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      09-OCT-1998;
09-OCT-1998;
09-OCT-1998;
25-FEB-1999;
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09-AUG-2001
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                                                                                                                                       Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 orains
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                 8 X G G
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                 represent novel Neisseria meningitis and N. gonorrheae polynucleotides and polypeptides. AAZ5457 to AAZ54576 and AAZ54616 to AAZ55473 represent PCR primers used in the exemplification of the present invention. The polypeptides, the polynucleotides, antibodies and compositions of the invention can be used as vaccines, as diagnostic reagents, and as manufacture of medicaments for treating or preventing infection due to Neisserial bacteria (e.g. meningitis and septicaemia), to detect the presence of Neisseria bacteria, or to raise antibodies. They may also be used to screen for agonists or antagonists, which may themselves may also be used as antibacterial agents. The polynucleotides of the invention may also be used in gene therapy protocols.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to a single exon nucleic acid probe for measuring human gene expression in a sample derived from human foetal liver. The single exon nucleic acid probes may be used for predicting, measuring and displaying gene expression in samples derived from human fetal liver. The present sequence is a peptide encoded by a single exon nucleic acid probe of the invention.

Note: The sequence data for this patent did not form part of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; foetal liver; gene expression; single exon nucleic acid probe.
                                                                                  to AAZ54536, AAZ54577 to AA254615, and AAY74253 to AAY75941
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Peptide #9611 encoded by human foetal liver single exon probe
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Claim 2; Page 554; 1453pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABB42105 standard; Peptide; 37 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   53.68;
58.38;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ANPPIPPTWLQT 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                267 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO200157277-A2.
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27-SEP-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
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    \overset{\mathbf{A}}{\times}\overset{\mathbf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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             probes which are derived from genomic sequences expressed in the human brain. They can be used to measure gene expression in brain cell samples, which may enable the diagnosis and improved treatment of nervous system diseases such as Alzheimer's disease, multiple sclerosis, schizophrania, epilepsy and cancers. The present sequence is a protein encoded by one of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human brain expressed single exon probe encoded protein SEQ ID NO: 35090.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Single exon nucleic acid probes for analyzing gene expression in human
printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                               Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; brain expressed exon; gene expression analysis; probe;
microarray; Alzheimer's disease; multiple sclerosis; schizophrenia;
epilepsy; cancer.
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                                                                                                                  22; Length 37;
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                                                                                                                  DB
                                                                                                                                                             Mismatches
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                                                                                                                  No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Chen W, Rank DR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 44;
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                                                                                                                Score
Pred.
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                                                                                                                                                                                                                                                                                                                                                              AAM62985 standard; Protein; 37 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       04-FEB-2000; 2000US-0180312.
26-MAY-2000; 2000US-0207456.
30-UDN; 2000; 2000US-0631366.
03-AUG; 2000; 2000US-0234687.
21-SEP-2000; 2000US-0234687.
27-SEP-2000; 2000US-023459.
04-OCT-2000; 2000GB-0024283.
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                                                                                                                52.48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                the probes of the invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                     2 KAMEPTPPLWIKT 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2 KAMDPTPPLWIKT 14
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                                                                                                                                                             Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2001-483446/52
                                                                                                           Query Match
Best Local Similarity
Matches 6; Conserv
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Best Local Similarity
Matches 6; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             37 AA;
                                                                  37 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                              Human; bone marrow expressed exon; gene expression analysis; probe; microarray; cancer; leukaemia; lymphoma; myeloma.
                                                                                                                  Human bone marrow expressed probe encoded protein SEQ ID NO: 36104.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human genome-derived single exon nucleic acid probes useful for analyzing gene expression in human bone marrow
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46.2%; Pred. No. 5;
Live 4; Mismatches 3; Indels
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                           AAM75798 standard; Protein; 37 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                              (MOLE-) MOLECULAR DYNAMICS INC.
                                                                                                                                                                                                                                                                                                                                                                 2000US-0234687.
2000US-0236359.
2000GB-0024263.
                                                                                                                                                                                                                                                                             30-JAN-2001; 2001WO-US00668.
                                                                                     06-NOV-2001 (first entry)
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Best Local Similarity 46.2
Matches 6; Conservative
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                                                                                                                                                                                                                                                                                                                                                                 21-SEP-2000;
27-SEP-2000;
04-OCT-2000;
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30-JUN-2000;
03-AUG-2000;
                                                                                                                                                                                          Homo saptens.
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                                                        AAM75798;
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RESULT 15
             AAM75798
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Search completed: June 27, 2003, 18:01:23 Job time : 38 secs

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